



the Ring

University of Victoria

Volume 10, Number 18, June 22, 1984

Construction begins on Complex

Clearing and excavation work for the Science and Engineering Complex at UVic began June 14, the day after two provincial Cabinet ministers joined other dignitaries in a sod-turning ceremony at the site.

Finance Minister Hugh Curtis, President Dr. Howard Petch and Board of Governors chairman Ian Stewart each took a turn in shovelling out the first sod for the complex which will link the Cunningham and Elliott Buildings. Also attending the ceremony was Dr. Patrick McGeer, Minister of Universities, Science and Communications.

The complex, to house UVic's new Faculty of Engineering and the Department of Biochemistry and Microbiology, is being built by Campbell Construction Ltd. of Victoria. Campbell was awarded an \$11,638,500 contract to build the complex after submitting the lowest of eight bids.

At the Ceremony, McGeer recalled the "painful" decision that had to be made regarding the funding of engineering at UVic, "knowing how valuable it was but also recognizing that financial resources were scarce.

"We are going through a difficult time in the province's history and this decision recognizes the significant role this development will play in that history. The faith shown in this institution has been borne out."

McGeer said Petch was "indefatigable" in pursuing his goal and Victorians had provided fantastic support for the project. "The people are on your side."

Petch gave credit to Premier Bill Bennett and also praised the "tremendous support" from the community for engineering at UVic. "In particular, there is a succession of presidents and executive members of the Greater Victoria Chamber of Commerce who helped us at all times with unfaltering zeal."

Petch said he has been accused of having an overriding interest in sciences as opposed to Fine Arts, but pointed out that the complex was the first science building to be constructed since 1971 when the Cunningham Building was completed.

"During my tenure at UVic, University Centre with its Auditorium, the Music Building, the Phoenix Building and the small Visual Arts Building have been constructed, all in the area of Fine Arts.

"Since the completion of the Cunningham Building, there have been no new science facilities although two new departments in science have been established.

Petch said the new complex represents some of his philosophy of science in that there is an integration of sciences within the complex.

He pointed out that recent statistics reveal that UVic is now ranked sixth in Canada in per capita Natural Sciences and Engineering Research Council (NSERC) grants.

"Our scientists have really arrived and the NSERC statistics show that there is national recognition of the status this university has achieved."

While the struggle to establish a Faculty of Engineering at UVic goes back more than five years, Petch said his belief that UVic would eventually have such a complex never wavered. "We first presented



Curtis turns the sod while Stewart and Petch wait their turn.

designs for the building in December of 1979 and we got caught twice in a freeze on capital projects at universities."

Curtis was substituting for Premier Bennett who cancelled his scheduled UVic appearance to attend the funeral of Okanagan North MLA Don Campbell. Curtis described the beginning of construction of the complex as "a good omen for Greater Victoria".

Completion date for the complex is Oct. 18, 1985.

The 120,000-gross-square-foot, three-storey, re-inforced concrete structure will provide 26,000 net assignable square feet for the Faculty of Engineering. UVic's growing Department of Biochemistry and Microbiology, now housed in crowded quarters in former army huts on campus, has been allocated 21,000 net square feet. The Biology Department will have 10,000 net square feet in the building and 4,000 net square feet has been allocated to the Chemistry Department.

The Faculty of Engineering was established at UVic in July of 1983 with Dr. Len Bruton as the founding dean. The Faculty will admit 70 first-year and 45 second-year students in September of this year. The students will be accommodated in renovated

temporary quarters in the huts on campus until the building is completed.

About 250 applications for admission to the engineering program were received for this year and Dr. Bruton says applications were of an exceptionally high academic standard.

The engineering program is offered as a Co-operative Education Program with all students alternating between four months of academic work on campus and four-month work terms in industry in jobs directly connected to their studies.

In the first phase of its development, the Faculty of Engineering is offering Bachelor of Engineering degree programs in Electrical Engineering and Computer Engineering.

The curriculum, at the senior level, emphasizes emerging areas of high technology, including microelectronics, computer engineering, computer-aided design, computer-aided manufacturing, robotics, digital processing, communications and software engineering.

In phase one, Engineering will have approximately 300 undergraduate students enrolled in its programs and will be admitting 70 students each year.

Injunction sought to halt work

Farmer Construction Ltd. has applied to the B.C. Supreme Court for an injunction to halt work in progress at the new science and engineering complex at UVic.

The contract to build the complex, to house UVic's new Faculty of Engineering and the Department of Biochemistry and Microbiology, was awarded June 5 to Campbell Construction Ltd. of Victoria and work began on the project June 14.

Campbell's bid of \$11,638,500 was \$150,000 lower than the \$11,789,000 bid of Farmer Construction, the second lowest of eight bidders.

Farmer has applied to the court for an injunction to stop the contract and to halt work in progress, alleging that the bidding competition was unfair.

The injunction hearing opened June 18 before Justice Leslie Cashman. The hearing was adjourned until June 20 and continued after the Ring deadline.

Viking pair picked

Centre Greg Wiltjer and guard Eli Pasquale of the Canadian Champion UVic Vikings have been chosen in the National Basketball Association draft held June 19.

The six-foot-eleven-inch Wiltjer was chosen in the second round by the Chicago Bulls, the 43rd player chosen overall, while Pasquale was chosen in the fifth round by the Seattle Supersonics. University of Calgary guard Karl Tilleman was taken in the third round.

Wiltjer was chosen an all-Canadian in his one year with the Vikings while Pasquale was the floor general for five straight Canadian Interuniversity Athletic Union (CIAU) championship Viking teams.

Twins Win

Three children of UVic professors are among the four winners of \$1,500 Alumni Association Scholarships for 1984-85.

Catherine and Anne-Marie Waters, daughters of Dr. Donovan and Maryla Waters, Ken Dosso, son of Dr. and Mrs. Harry Dosso and Jacki Godard are the recipients. Dr. Waters is in the Faculty of Law while Dr. Dosso is in the Physics Department.

Ken Dosso is a third-year student in the School of Music while the Waters' twins are fourth-year English students and Godard is entering fourth year studies in Psychology.

Don Pierce photo

Retech taps alternative energy

Retech, a Discovery Park company on campus, working closely with Monsanto Corporation, has developed a new alternative energy unit based on a reverse electro-dialysis process that substantially reduces the unit's size while increasing effectiveness.

The process, which uses a combination of seawater and fresh water to create an electrical current, has been the subject of research work at Retech for a number of years.

"One of the problems we had to overcome was the fixed ideas that had come about because of the name of the process," explains Dr. Sam Visaisouk, Retech's manager. "Most people thought that the only way to achieve reverse electro-dialysis was to do electro-dialysis in reverse, which required a lot of complicated equipment."

"We rethought the whole process. We received a great deal of help from Monsanto Corporation in developing a special plastic membrane, something we could not have done alone on the grant money we had available to us."

The Retech project is funded by the federal Office of Energy Research Development, set up under the National Energy program.

"The project involves many people and organizations," says Visaisouk. "Retech does the basic research. Dr. Terry Foster, a UVic grad now working at Defence Research Establishment Pacific (DREP) is the scientific officer who monitors results, and the Pat Bay Institute of Ocean Sciences manages the contract. The original grant application was sponsored by Dr. Alan Cornford, formerly with the Pat Bay Institute, and now with the provincial government."

The total amount of the grant is for \$60,000, renewable for three years.

"It is a very small grant," says Visaisouk, "and we could not have come this far without Monsanto's help. They have absorbed the research and development cost in developing the special membranes our unit requires, something we could not afford to do. It was a very difficult product to develop."

Retech now has a working model of the unit they wish to develop, with plans to build a 60-Watt unit by March, 1985 and a one-kilowatt (Kw) unit by March, 1986, if funding continues.

"We are not building something that will be competitive with traditional energy supplies, such as diesel or hydro-electric," says Visaisouk, "at least not when direct costs are considered, but we have a unit that is much more efficient than previous models."

Traditional sources of energy have hidden costs, ranging from flooded farm and recreation land to various types of pollution, notes Visaisouk.

"We are not competing at this level. We have an efficient, clean energy source that can be used in isolated communities with a one-time capital expenditure, and no ongoing operating costs of any consequence. We think we have a product that is perfect for isolated and third world communities."

Visaisouk adds that the original push for alternative energy appeared to be a search for ways to develop sources that were secure and renewable, rather than those that were economically competitive with traditional sources in a short term sense.

"We have proceeded in developing the unit on that basis," he says.

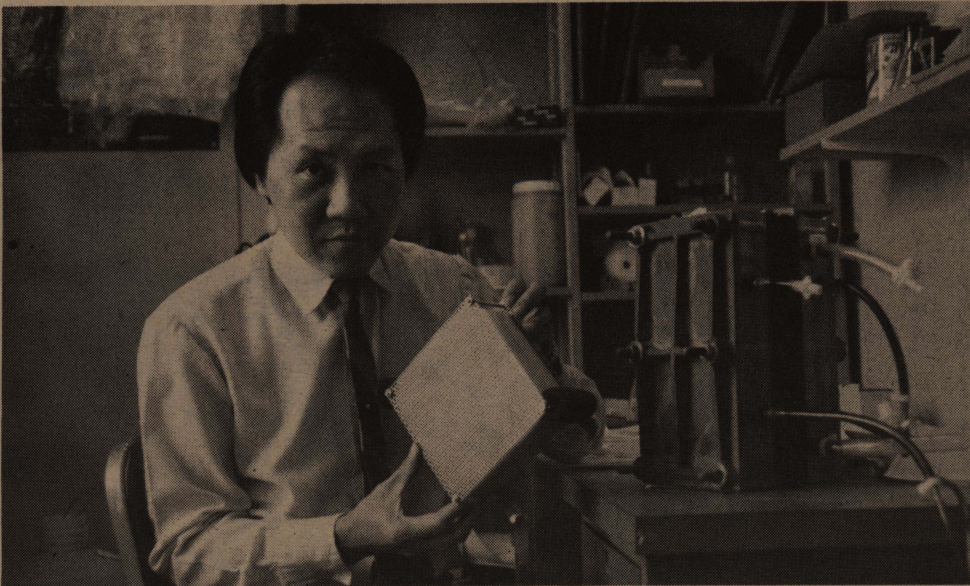
Retech's frontrunner position in this field is being recognized with invitations to present research results at a number of events. The company presented their work at the International Energy Conference in Regina in May of this year, and recently received an invitation to speak at the prestigious Gordon Research Conferences later this month.

"The Gordon conferences are by invitation only," says Visaisouk. "This indicates that our work is being taken seriously. It reflects very well on UVic that we are able

to do this work here."

Retech is also working on a number of other projects, including control of humidity in greenhouses to combat such problems as mildew, and a color-removing process for wax, sponsored by B.C. Honey.

"Traditional methods of removing color from wax involve acid bleaching," says Visaisouk, "but this destroys the waxy properties that are in demand by candle-makers and cosmetic companies. We have a new process that removes color, but keeps many of the other properties that are wanted, including the natural aroma. It was a very nice project to work on."



Dr. Sam Visaisouk, Retech manager, compares the Discovery Park company's reverse electro-dialysis unit to the older traditional model. The Retech unit can be theoretically built far larger than the test unit shown, but even this small one is 10 times more effective than the older model shown beside it.

Scholarship fund established

A scholarship fund in the name of retired physics professor, Dr. John L. Climenhaga, has been established.

Funds raised will be used to provide an annual scholarship for an outstanding student entering third year at UVic. Tax deductible contributions to this fund should be made payable to the "John L. Climenhaga Scholarship Fund" and sent to the University of Victoria Foundation, Sedgewick Building.

Climenhaga retired from the Physics Department in 1982 after a lengthy and distinguished career at Victoria College and at UVic.

He played a major role in the development and growth of the department after joining the faculty of Victoria College in 1949.

"His unwavering persistence in stating the need for honors programs, research

programs and graduate programs in the university in general and in the Physics Department in particular is well remembered by many of his colleagues," said Dr. H.W. Dosso (Physics), a long-time colleague and member of the scholarship committee.

Dosso recalled Climenhaga's skill and success in making the case for an astronomy laboratory with a telescope dome. The astronomy laboratory, with several telescopes, was officially named the Climenhaga Observatory in 1982.

While involved in major administrative roles, including department head for many years and Dean of Arts and Science for three years, Climenhaga remained active in teaching, research and supervising graduate students. Since retirement, he has continued in research and part-time teaching.

UVic and union rescue job program

Provincial funding for the Work-Study Program at UVic has been slashed from \$220,000 for 1983-84 to \$38,250 for 1984-85.

The program provides academically-related research assistant positions for students with demonstrated financial needs or for students who prefer to work rather than apply for a loan.

Despite the 82 per cent chop in provincial funding, UVic will be able to provide 280 part-time positions for students at \$600 each. In 1983-84, 352 jobs were filled under the program.

Ted Sawchuck, director of Student and Ancillary Services, explained that the budget for 1984-85 "has been supplemented by the university and the generous contributions from CUPE Locals 917 and 951."

The two CUPE locals on campus have donated about \$27,000 to establish a work-study fund for the coming year.

Sawchuck said that because of the reduced funding for the program, each project will be limited to a total of \$600 and the student wage will be reduced from \$6 to \$5 an hour.

Anyone interested in having students work for them through the work-study program must submit job descriptions to Sawchuck's office no later than August 1. Clerical-type work projects will not be accepted and jobs must be suitable for part-time work for a total of 120 hours, advises Sawchuck.

Approved projects will be posted in the Canada Employment Centre on Campus on the first day of classes in September. Projects will be filled on a first-come, first-served basis up to the limit of funding. Students confirm their eligibility for the work-study program by interview through the Financial Aid Services Office during the late summer and early fall.

Rowers could use some help

The UVic women's lightweight rowing crew of Tanya Phillips, Sandra Williams, Marianne Morgan and Vancouver Rowing Club's Sue Alexander are headed for the Canadian Amateur Rowing Association's 1984 National Team Lightweight Trials July 7 at Montreal's Olympic Basin.

Under the direction of coach Katie Burke, the coxless crew won the right to attend the trials as a result of their impressive showings at a Western Canada selection camp held in Victoria in early May.

The UVic crew is expected to be a contender for the right to represent Canada at the inaugural World Lightweight Championships August 23-26 at the Olympic Basin site.

Competitors are expected from Britain, United States, Denmark, Holland, France, West Germany, Australia, Spain and Italy.

Former UVic lightweight men Andrew Cartwright and Keith Battersby, currently rowing for Victoria City Rowing Club, will compete in the singles event at the Canadian trials June 29 along with UVic student Derek Hutchinson and Peter Tattersall of Kingston, Ontario.

Crew members do not receive compensation for trip expenses and are therefore responsible for all costs incurred. Those wishing to make a cash contribution to defray athlete travel costs may do so by contacting Katie Burke at 595-3418 or 386-7511.

Rowers score heavyweight upset

The Canadian Olympic heavyweight eight, including four UVic rowers, recorded a stunning upset June 16 over the world's top rowing powers in the finals of the prestigious Rotsee Regatta in Lucerne, Switzerland.

The Canadians defeated the favored United States Olympic team and East Germany in the finals of the 2,000-metre, eights-with-coxswain event.

Leading from the start, the Canadian rowers held off the U.S. team to finish in a record-setting five minutes, 29.41 seconds, five seconds faster than the best previous recorded time.

The team includes UVic students Dean Crawford, 26, and Grant Main, 24, of Victoria, Blair Horn, 22, of Kelowna and Kevin Neufeld, 23, of St. Catharines. Others on the team are twin brothers Mark and Mike Evans of Toronto, Patrick Turner of Vancouver, Paul Steele of Delta and cox Brian McMahon of St. Catharines.

The Rotsee Regatta is the last major international rowing event prior to the 1984 Summer Olympic Games in Los Angeles.

The women's eights placed third to the United States and East Germany. Included on the Canadian team are UVic rowers Joannie Gillingham and Lisa Robertson.

The men's coxed four which finished fourth behind Britain, East Germany and the United States included UVic rowers David Ross, Tim Christian and cox Paul Tessier and Viking graduate Nick Toulmin.

Former UVic rower Andrea Schreiner finished third in the women's single sculls consolation final while Vike graduates Janice Mason and Lisa Roy, along with UVic student Carolyn Trono as cox, were on the women's quadruple sculls team which finished third in the consolation final.

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Centre completes voice identification project



Hilary Dibben, a fourth-year linguistics student and junior research assistant for the Centre for Speech Technology Research, loads a magnetic disk into the Digital Equipment PDP 11/23 computer. Dibben's position is funded by a Youth Employment Grant until the end of June.

The Centre for Speech Technology Research, a joint venture sponsored by the Department of Linguistics and JEM Research, has completed a major contract with the federal Department of Communications in the field of speech verification technology.

The results of the project show that it is feasible to identify components of individual speech patterns when they are transmitted digitally, and thereby identify the speaker.

The technique will enable the receiver of a message to determine if someone is authorized to send it, or to identify a person who wishes to be known when contacting another through digitally transmitted voice messages.

"We have shown this is feasible to do", says Craig Dickson, the Centre's director. "By identifying certain components of speech that have a high degree of speaker verification content, and applying some very sophisticated statistical analysis to the raw results, we know we can identify an individual speaker against a previously recorded statement, or identify a specific speaker from within a large sample of voices."

Much of the research work was carried out on a Digital Equipment PDP 11/23 computer supplied by UVic to the Linguistics department, and specially modified for acquisition of digitized speech samples and signal processing.

"To do the bulk of the work we also required a specialized software package called the Interactive Laboratory System (ILS). The contract enabled the department to buy the ILS package, valued at about \$15,000," notes Dickson.

"The computer and software are also used by other members of the department. This illustrates the effective working relationship that has evolved between JEM Research and the Department of Linguistics in forming the Centre.

"The system has university-wide applications, and is, for instance, being used by a member of the biology department to examine the different dialects in bird songs as a method of identification."

The Centre is now working on a number of other con-

tracts, with a major focus on work in synthetic speech. One important outcome of the research involved in the Department of Communications contract has been the development of techniques that may be useful in producing better synthetic speech.

"We see this research leading to projects and contracts with several groups, including the Department of Transport which is examining the feasibility of using artificial speech in an information centre at Expo 86," says Dickson. "We can also foresee synthetic speech merging with instructional software for language education, particularly with Pacific Rim languages."

The Centre is also interested in developing a speech "micro-lab" which will enable the user to do speech analysis on a micro-computer, and is continuing work in the area of "visible speech" for the handicapped. (See earlier story, *the Ring*, Sept. 10, 1982).

In other application areas, the possibility of early detection of laryngeal disorders through acoustic examination is being considered.

Members of the Centre's research team include Dr. Patrick Alexander, speech pathology and audio consulting; Ronald Conway, administration; Anita Copeland, psycholinguistics; Craig Dickson, speech and signal processing and acoustic phonetics; Dr. John Esling, micro-computer based language courseware; Dr. John Ingram, natural language processing; Dr. Roy Snell, speech signal processing and mathematics; Robert Tapp, computer systems engineering; William Tennant, management; Dr. Henry Warkentyne, acoustic phonetics and lexicography; Dr. Samuel Wong, computer system analysis, and Dr. Annette Wright, educational microcomputer software.

"The Centre's contract work enables us to employ graduate and undergraduate students and expand research opportunities generally," says Dickson. "At the moment, about 15 different projects are being discussed or worked on by the Centre.

"We are rapidly establishing ourselves as a centre of expertise in this field throughout Canada."

Job market buoyant for Public Admin grads

The job market is buoyant for graduates of UVic's School of Public Administration who continue to find employment in British Columbia as well as across Canada in spite of recent cutbacks in the B.C. public sector.

UVic Public Administration professors interviewed recently are curious about a dramatic decrease this year in the number of applicants to the program from within B.C., and wonder if cutbacks in the public service has led to a popular misconception that there are no provincial jobs available in the fields they are training students to enter. The number of highly qualified applicants to the program still exceeds the number of openings available (about 25 each fall) but the number from B.C. has declined from two-thirds of the students applying last year to about one-third this year.

Graduates are not having difficulty finding jobs, according to the professors. In fact, the reverse is true and employers are having difficulty finding enough graduates of the program to meet their demands.

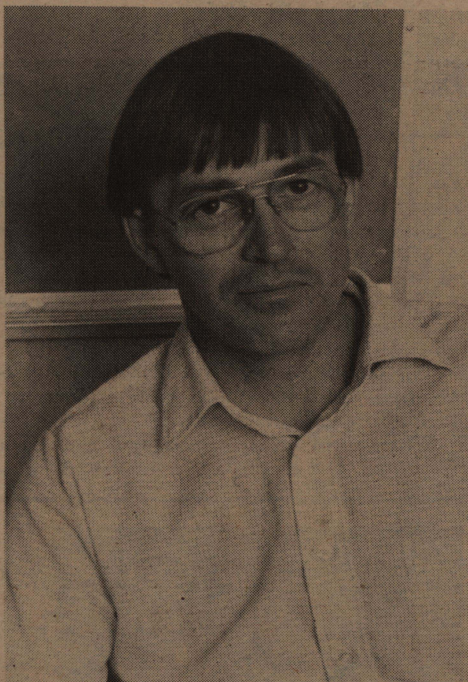
"We have employers coming to us and finding students all placed," says Dr. Mark Loken, economist and co-ordinator of the co-operative education component of the MPA program. "We're getting more requests for students than we can supply."

Students in the 30-month co-op program alternate their academic studies on campus with four-month paid work terms in the public and private sector across Canada. Part of Loken's job entails meeting with senior officials in government and business across Canada to discuss potential work placement positions which are particularly suited to individual students' interests, experiences and abilities.

"We have been doing a lot of digging for good jobs, and it's starting to pay off. It's true that there are a lot of jobs for graduates of our program, and one of the reasons is that private and federal agencies, in times of restraint, find they can get the biggest bang out of a buck by hiring students," says Loken.

"Co-op is vibrant. It solves the Catch-22 of 'you can't get a job unless experienced,'" says MPA Director Dr. James Cutt.

Of 60 full-time students enrolled in the MPA program in 1983-84, 45 were in co-op. They typically find jobs when they gradu-



ate, or before they graduate, with a co-op employer. Others in the program not in co-op, but in the 18-month graduate academic program, usually are on leave from their jobs in order to improve their skills and return to these jobs when they graduate, or are part-time students who retain their jobs while they work towards the MPA degree.

Students of the program already have an undergraduate degree and usually work experience in many areas, including political science, psychology, economics, sciences, geography, nursing, social work, literature, education and increasingly, law.

They are trained in the analytical, professional and academic skills necessary to enter business, industry or government to take up positions including budget analysts, personnel managers, financial administration analysts, managers and assistant managers, and managers of information technology systems.

Loken speculates that students of the MPA program are doing well on the job

market in economic hard times because they are trained to ask questions and seek solutions to problems, and to seek ways to get jobs done more efficiently.

"I find now that students are doing more interesting jobs than in better times. They have more real things to do. The whole point is for them to take on projects that will test their skills and see if they can improve situations."

Feedback about performance of MPA students and graduates from co-op employers is very good, he adds. The UVic program is the only co-op in Public Administration in Western Canada and Loken says it is comparing very favorably with business administration programs at McMaster University and the University of Western Ontario.

He points out that although the title 'School of Public Administration' suggests that the program provides training mainly for government positions, the education provided is actually closer to that of the Harvard School of Organization Management or the Berkeley Graduate School of

Public Policy.

There is a regular flow of graduates to the private sector, to oil companies and to such corporations as IBM, says Cutt.

Loken notes that 16 of the 22 co-op students now doing summer work terms are women, making the program "very good for affirmative action employees."

MPA professor Dr. Bart Cunningham says that the only students who might be affected by cutbacks in the B.C. public service are those who will not move from Victoria. "They might have to wait a little longer to find jobs.

"But we want to straighten out the facts. The 25 per cent reduction in the public sector in B.C. is not causing our students to lose jobs."

Even in Victoria, graduates are finding work, says Cutt. "What is interesting is that students are now finding regular, ongoing contract employment with government. The 25 per cent cut affected only two graduates, and they now have contract work."

Grants help shows to go on

Federal and provincial grants are providing jobs for 29 students and much-needed assistance for the Phoenix Summer Theatre.

This summer, Canada Works, a program of the Canada Employment and Immigration Commission, is funding 78 projects in the Greater Victoria area, employing 385 students at a total cost of \$1 million. Of the 385 students, 18 are working with Phoenix Summer Theatre. Another student is employed in theatre at UVic through the Summer Canada Initiatives program.

There are also 10 UVic students in theatre employed under the Provincial Youth Employment

Program.

Without the assistance provided through these grants, the summer production schedule at the Phoenix Theatre would have been reduced considerably both in actors and technical running crew, say Theatre Department officials.

All students working through government grant programs are participating in the three plays which will be presented on campus this summer. The Phoenix Summer Theatre opens June 27 and runs through July 28, five days a week. For further information on the production schedule, call 721-8000 between 10 a.m. and 4 p.m.

Friday, June 22nd.

Maltwood Art Museum and Gallery. *Four Hundred Years of Furniture* (from the Maltwood Collection). Continues until July 8. Gallery hours are 10 a.m. to 4 p.m. Monday to Friday, 12 noon to 4 p.m. Sunday, and during evening events at the University Centre Auditorium. McPherson Library Gallery. *Work by Arthur Nishimura*. Continues until July 6. Intersession hours until July 3 are 8 a.m. to 6 p.m. Monday and Friday, 8 a.m. to 9 p.m. Tuesday, Wednesday and Thursday, closed Saturday and Sunday.

Monday, June 25th.

Registration for Summer Session Recreation & Intramurals classes begins. Continues until July 6. Registration forms are available at the Athletics and Recreation Office, MCKI GYM.

1:00 p.m. Board of Governors meets. Senate & Board Room, University Centre.

Tuesday, June 26th.

1:30 p.m. Oral Exam. Elissa Poole, Ph.D. Candidate (Musicology), will defend her thesis entitled: "The Sources for Christophe Ballard's *Brunetes ou Petits Airs Tendres*

and the Tradition of Seventeenth-Century French Song." MACL Lounge, B Wing.

Wednesday, June 27th.

8:00 p.m. Phoenix Summer Theatre opens, with the plays *Peanuts*, *5th of July*, and *Frankenstein* presented in repertory Tuesday to Saturday until July 28. For further information on schedules, contact 721-8000. PHOENIX BUILDING.

Friday, June 29th.

May/June Summer Studies courses end. Last day for payment of deferred fee balance for Summer Studies courses beginning in July or August. A service charge for non-payment will be added after this date.

10:00 a.m. Prime 55 Festival. Continues until June 30. For further information, contact University Extension.

Seminar presented by the Dept. of Electrical Engineering. Dr. Y.T. Chan, Dept. of Electrical Engineering, Royal Military College of Canada, Kingston, Ont., will speak on "On Time Delay Estimation." LHUT 72.

Sunday, July 1st.

Canada Day.

Monday, July 2nd.

University holiday. University offices closed.

Tuesday, July 3rd.

Reading break for May/August Summer Studies courses.

7:30 p.m. Cinecenta films. *The Moon in the Gutter*. Subtitles. Admission charge. SUB Theatre.

Wednesday, July 4th.

Summer Session first term and full session courses begin.

7:30 p.m. Cinecenta films. Double Feature. *Rear Window* and *Rope*. Admission charge. SUB Theatre.

Thursday, July 5th.

7:30 p.m. Cinecenta films. *Far from the Madding Crowd*. Admission charge. SUB Theatre.

Friday, July 6th.

Last day for adding first term Summer Session courses which began on July 4.

Last day for withdrawing without penalty of failure from May/August Summer Studies courses.

7:30 p.m. Cinecenta films. *Zelig*. Admission charge. SUB Theatre.

Monday, July 9th.

McPherson Library Gallery. *Sierra Club of Western Canada*. Continues until July 30. Summer Session hours are 8 a.m. to 9 p.m. Monday to Thursday, 8 a.m. to 6 p.m. Fri-

day, 10 a.m. to 6 p.m. Saturday, closed Sunday.

7:30 p.m. The Chaplain's Office and AMS present Gwynne Dyer's documentary series *War* every Monday during Summer Session, with a discussion to follow after each episode. Discussion leader tonight: Dr. Richard Powers (Political Science). No admission charge. SUB Theatre.

Tuesday, July 10th.

7:30 p.m. Cinecenta films. *L'Etoile du Nord*. Subtitles. Admission charge. SUB Theatre.

Wednesday, July 11th.

Last day for adding July/August Summer Studies courses which began on July 4.

7:30 p.m. Cinecenta films. Double feature. *The Private Life of Sherlock Holmes* and *Terror By Night*. Admission charge. SUB Theatre.

Thursday, July 12th.

Maltwood Art Museum and Gallery. *Islamic Art* (objects of daily use). Continues until August 5.

10:00 a.m. Red Cross Blood Donor Clinic. to University Centre Lobby.

4:00 p.m. Cinecenta films. *Death in Venice*. Admission charge. SUB Theatre.

Fingers



Fairclough

The campus friends of **Floyd Fairclough**, director of Community Relations and Development, attended a farewell retirement party June 20 in the Green Room of the Commons Block. Fairclough, who is taking an early retirement at the end of June, first came to the campus as manager of the University Development Board on Sept. 1, 1960. He has been the university's chief fund-raiser ever since. Along with fund-raising activities, Fairclough is responsible for the Alumni Association and Information Services. While he is taking early retirement, Fairclough will continue his association with the University of Victoria Foundation on a part-time contract basis.

The Alma Mater Society (AMS) has a job for an energetic and motivated student salesperson. **Len Molden**, Vice-President Services, explains that the AMS is setting up the Canadian Federation of Students (CFS) Discount Program this summer. Needed is a person to sign up local businesses willing to offer university students a discount of 10 to 25 per cent on products or services. Molden points out that the AMS ran a discount program last year and 85 businesses signed up. For every signing this summer, the CFS will pay \$6. The AMS will provide a computerized list of all the businesses in Victoria, complete with addresses and phone numbers. Molden advises any UVic student interested in the job to submit a resume to his office (Room 135c) in the Student Union Building before July 4. For further information, he can be contacted at 721-8368.

More than ever, UVic students need financial assistance in order to continue their studies and **Sonia Birch-Jones**, director of the Alumni Association, reminds everyone that the annual Alumni Garage Sale is one way the campus community can help students. Proceeds from the popular annual garage sale are used to establish a Student Crisis Fund to provide financial aid to students on an emergency basis. In 1983, the sale raised \$3,000. This year's sale will take place Nov. 10 and Birch-Jones asks people to check around their homes for anything that could be donated. Bookcases, books, old pictures, drapes, material, cushions, jewellery, garden tools and anything else with the exception of clothing will be welcome. Donations can be brought to the Alumni Office in the Sedgewick Building, beginning in September.

The first summertime Member's Night at the Faculty Club will be a Family Barbecue on Friday, July 6, reports **Chris Greenwood** of the club's entertainment committee. For \$7.95 for adults and \$4.10 for children, you can choose your meat, grill it on the big barbecue, and then help yourself to the buffet. Come and relax by the pond on a summer evening. For reservations, phone 721-7935 by Wednesday, July 4.

Notebook

The next edition of the **Ring** will be distributed on campus July 13. Anyone wishing to publicize a campus event occurring between July 13 and September should have complete information to Cindy Lowe of Information Services by July 7 for inclusion in the **Calendar** section of the newspaper.

Phoenix offers three plays

The Phoenix Summer Theatre is serving up a wide variety of live entertainment this summer with three plays in repertory in the Phoenix Building.

Opening June 27 at 8 p.m. is the musical, *Snoopy* with all the well-known characters of the Charles M. Schultz cartoons, *Peanuts*. This musical is directed by local actor/director John Krich.

5th of July opens June 29 at 8 p.m. in the McIntyre Studio. The characters in this "serious comedy" have been deeply affected by the social and intellectual freedom of the Sixties and in 1977 are living out the lives these early choices dictate. Daniel Gill is the director.

Frankenstein, by Alden Nowlan and Walter Learning, opens in the proscenium theatre. This version of Mary Shelley's classic novel was first produced at the Playhouse Theatre in Fredericton in July of 1974. The story closely follows the novel, in which the Creature is portrayed as a sympathetic character who is searching for his identity in an unfriendly, foreign world. Graduate student Stephen Malloy is the director.

The three plays run in repertory from June 27 through July 28, Tuesday to Saturday, 8 p.m. nightly. Call 721-7992 for further information.

Kergin goes to Africa

Dr. Dorothy Kergin, director of the School of Nursing, has been appointed external examiner/academic consultant in nursing at Kamuzu College of Nursing, University of Malawi, Lilongwe, Malawi.

This is the third year in which Kergin is fulfilling these responsibilities in this African country.

The Commonwealth Foundation is providing a grant to cover Kergin's return airfare and related expenses.

While in Malawi, Kergin will assist the

college in determining whether its recent graduates in nursing are meeting the expectations of the Ministry of Health which employs them.

As a country classified as "least developed" by the World Health Organization, Malawi experiences serious health problems which are related particularly to malnutrition and infectious diseases, including those which are waterborn, and has serious shortages of nurses and other health personnel.



A cheque for \$25,000 to establish the Johannes G. Nortal Scholarship in Engineering was presented recently by Mrs. Jessica Nortal (seated) in memory of her late husband. With her are, right to left, Engineering Dean Dr. Len Bruton, Board of Governors chairman Ian Stewart, and UVic President Dr. Howard Petch. The sum will be placed in trust with the University of Victoria Foundation and interest will be used for an annual scholarship, to be awarded at the discretion of the Dean of Engineering. Johannes Nortal was a ceramics engineer who graduated from the University of Saskatchewan. He was a long-time resident of Victoria.